

Animal Genetic Resources Utilization And Preservation In Support Of National Food Security

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ANIMAL GENETIC RESOURCES UTILIZATION AND PRESERVATION IN SUPPORT OF NATIONAL FOOD SECURITY

By :
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NAWACITA

- Improving people's productivity and competitiveness in the international market
- Created economic independence by powering strategic sectors of the domestic economy

MoA

- Realization of Sustainable Agricultural-Bio industry Systems which Producing Various Healthy Food and High Value Added Products Based on Local Resource for Food Sovereignty and Farmers Welfare

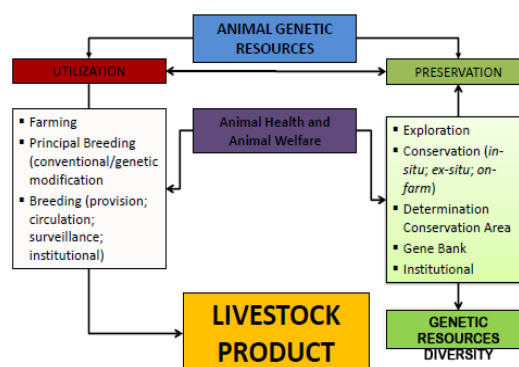
DGLAHS

- Food fulfillment of Livestock Origin and People Agribusiness Livestock

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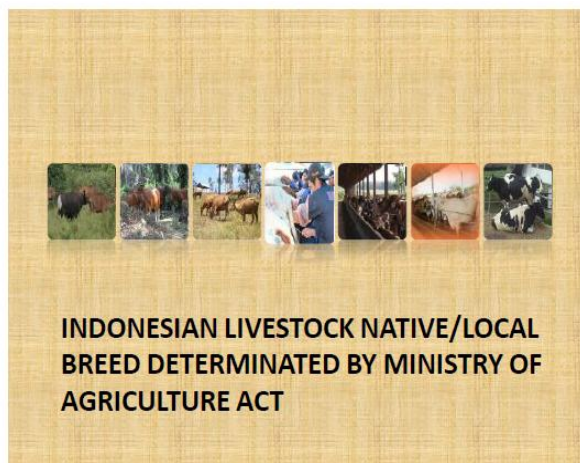
LAWS

- Constitution No 18/2009 concerning Livestock and Animal Health.
- Constitution No 41/2014 concerning Amendment for Constitution No 18/2009.
- Constitution No 18/2012 concerning Food.
- Government regulations No 48/2011 concerning Animal Genetic Resources and Breeding Livestock.



THE DETERMINATION OF NATIVE/LOCAL BREED

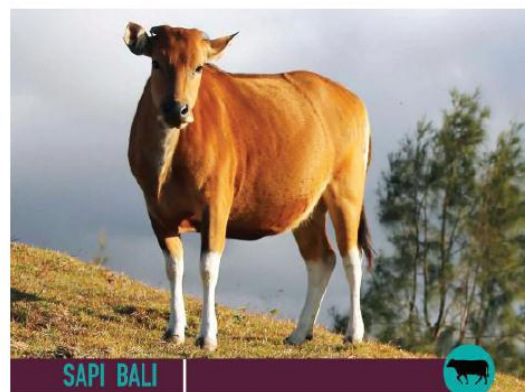
- Increasing the awareness from local government and livestock services for eminent AGR management in their region
- Ensuring the preserve and benefit sustainability along with law protection of the native/local breed
- The provision of the native/local breed registered by Minister of Agriculture to Food and Agriculture (FAO) → DAD-IS



CATTLE	BUFFALO	GOAT	SHEEP
<ul style="list-style-type: none"> • Sapi Bali • Sapi Madura • Sapi Aceh • Sapi Pesisir • Sapi Sumbawa • Sapi Peranakan Ongole • Sapi Jabres • Sapi Sumba Ongole • Sapi Donggala • Sapi Pasundan • Sapi Kuantan 	<ul style="list-style-type: none"> • Kerbau Sumbawa • Kerbau Moa • Kerbau Kalimantan Timur • Kerbau Kalimantan Selatan • Kerbau Toraja • Kerbau Pampangan • Kerbau Simeulue • Kerbau Kuntu 	<ul style="list-style-type: none"> • Kambing Kali Gesing • Kambing Lakor • Kambing Etawah • Kambing Gembrong • Kambing Kacang • Kambing Marica • Kambing Senduro 	<ul style="list-style-type: none"> • Domba Kisar • Domba Garut • Domba Wonosobo • Domba Batur • Domba Sapudi • Domba Palu • Domba Compass Agrinak (Pelepasan)

CHICKEN	DUCK
<ul style="list-style-type: none"> • Ayam Pelung • Ayam Kokok Balenggek • Ayam Gaga • Ayam Merawang • Ayam Kedu • Ayam Nunukan • Ayam Sentul • Ayam KUB (Pelepasan) • Ayam Gaok 	<ul style="list-style-type: none"> • Itik Alabio • Itik Tegal • Itik Pitalah • Itik Kerinci • Itik Bayang • Itik Talang Benih • Itik Mojosari • Itik Pegagan • Itik Rambon • Itik Magelang • Itik Cihetep • Itik Turi • Itik Mojosari-Master (Pelepasan) • Itik Alabio-Master (Pelepasan)

CANINE	DEER	HORSE
<ul style="list-style-type: none"> • Anjing Kintamani 	<ul style="list-style-type: none"> • Rusa Sambar 	<ul style="list-style-type: none"> • Kuda Sumbawa • Kuda Sandel • Kuda Gayo • Kuda Pacu Indonesia (Pelepasan)



Pampangan Buffalo



Gembrong Goat



Compass Agrinak Sheep





PE Goat



Pegagan Duck



Rabon Duck



Cihateup Duck



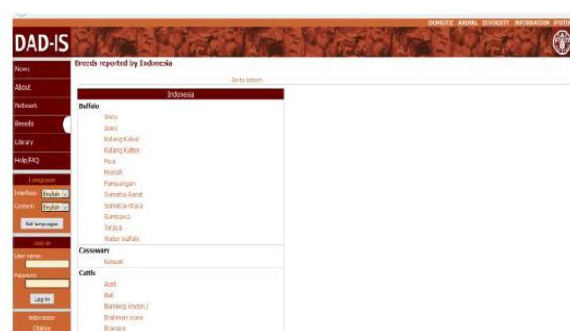
KUB chicken



Sandel Horse

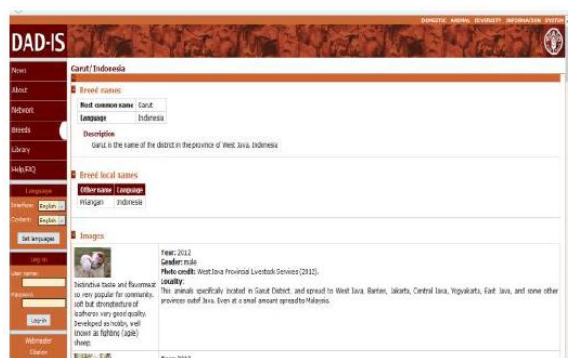


Indonesia Racehorse

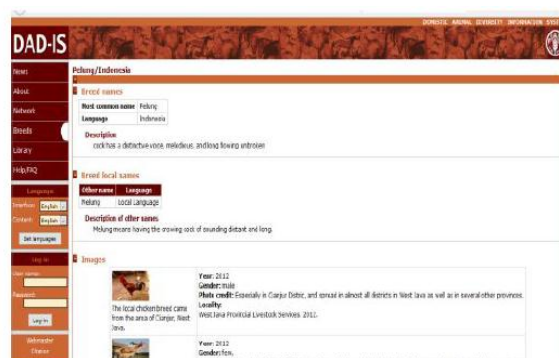


The Indonesian registered strain/line in FAO via DAD IS

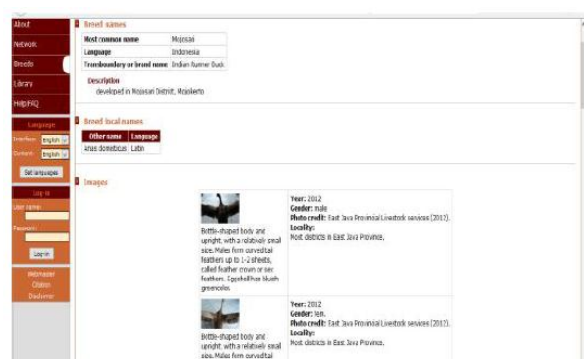
DAD-IS is the acronym of the worldwide Domestic Animal Diversity Information System of the Food and Agriculture Organization of the United Nations



Garut Sheep



Pelung Chicken



Mojosari Duck

ZONING OF BREEDING SOURCE

MoA regulation No 48/2011 concerning Zoning of Breeding Source dated 6 September 2011.
MoA regulation No 64/2012 concerning Amendment of MoA regulation Nomor 48/2011.

Breeding Source Region is an agroecosystem area with no administrative border and has the potential of breed development with particular native/local breed

CRITERIA

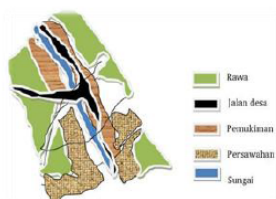
1. The animal disease surveillance must be done for the area with the certain livestock breed.
2. The criteria cover the livestock species and breed, agro climate, population density, social-economy, culture, knowledge and technology.
3. The region could be a partial or a whole of a sub-district, districts, province or island, depend on the local policy in order to preserve the breed livestock.

Livestock Breed

- The population of the breed must be a dominant (>80%) compare with the others.
- The dominant breed must concern the population structure .

Agro Climate

- Including feed resources and land suitability (rainfall, temperature, humidity), topography and land-capacities.



Population Density

- Presented by the proportion people (all ages) with the an area in the proposed breed source region (person/km2)
- The population density completed with data of sex, age, type of work, livestock household

Social-Economy

- Shown by the availability of economic institutional i.e. bank, cooperative system, livestock market and farmer livestock institutional.

Culture

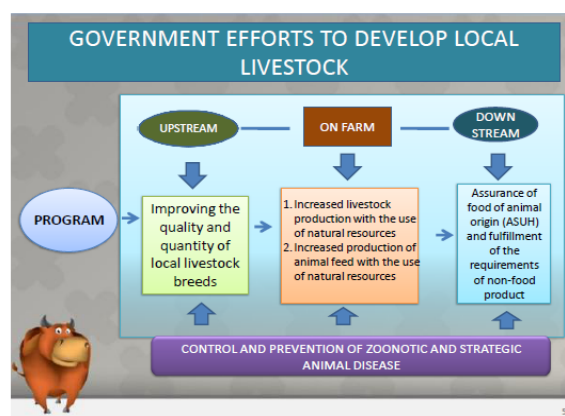
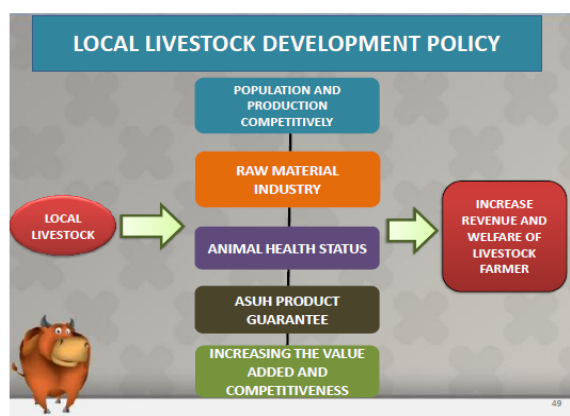
- Could be described by the farmers experience, likely livestock raising and the pattern of farming system (intensive, semi-intensive and extensive)



Knowledge and Technology

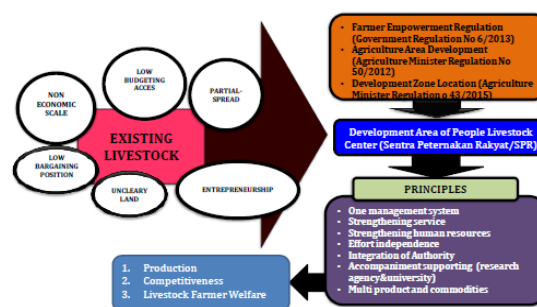
- Applicate knowledge and technology in the proposed region obtained by heredity, new technology introduction, feed genetic modification, etc.

LOCATION OF STRENGTHENING BREEDING ON SELECTED ISLAND/ DISTRICT 2015

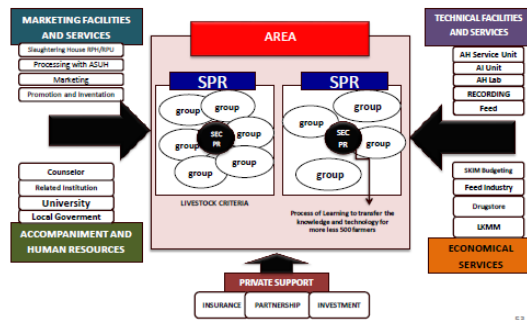


LIVESTOCK EXISTING CONDITION			
NO	COMMODITIES	SITUATION	OPPORTUNITIES
1	Local Cattle	1. Still need the importation of meat and live-cattle; 2. Constrained problem for high-quality livestock production	Indonesia has the origin of local cattle : Bali, Madura, PO, Pesisir, Aceh
2	Buffalo	The population is likely to decline	Indonesia has the origin of buffalo germplasm
3	Dairy Cow	1. Local dairy product is still low; 2. The higher of dairy product importation.	Indonesia has vast fertile land that can be used for increasing dairy farm
4	Goat/Sheep	The low of management productivity	Very highly export opportunities
5	Pig	Mostly smallholder	Very highly export opportunities
6	Broiler Chicken	Over-supply production	Open-widely to export
7	Native Chicken	The threat of a cross between local and broiler chickens	Open-widely to the market
8	Duck	Mostly smallholder	Consumption and rapidly growing product diversification

The way to change

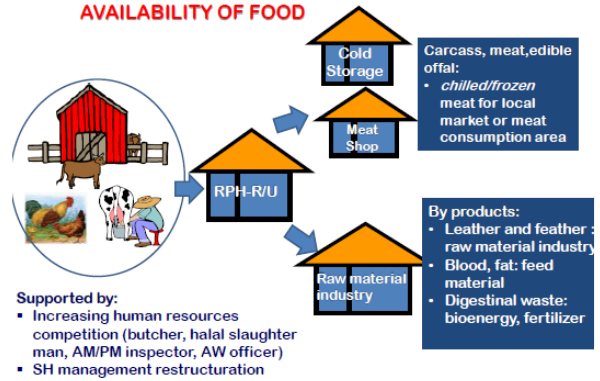


Development of People Livestock Center (Sentra Peternakan Rakyat/SPR)

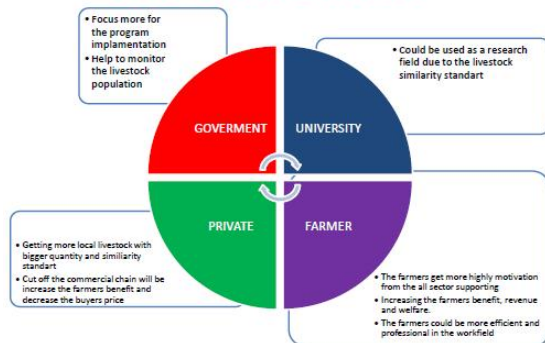


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FACILITATION ON SPR PRODUCTION TO SUPPORT THE AVAILABILITY OF FOOD



SPR POSITIVE IMPACT



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Thank You